



Institute of Town Planners, India

South Zone Conference, 23 Aug 2025

Biophilic Quad

Front Cover: Imaginary digital simulation about foundational elements of biophilia in composition of blue and green, a surrealism of art work.



***“It is not humans to infuse with the nature alone,
but nature also must conjoin with humans too.”***

Network Cities

Singapore: Known as the ‘City in a Garden,’ the city features extensive urban greenery, including vertical gardens, parks, and iconic projects like ‘Gardens by the Bay’ and ‘Marina Barrage.’

San Francisco, USA: This city is a leader in sustainability, with numerous green roofs, urban parks like ‘Golden Gate Park,’ and nature-based solutions for stormwater management.

Oslo, Norway: Surrounded by forests and waterways, Oslo connects urban areas with green corridors and emphasizes sustainability to promote biodiversity.

Wellington, New Zealand: Wellington integrates natural landscapes into its urban areas, featuring nature reserves

Portland, USA: Known for its commitment to urban greenery, Portland encourages green roofs, community gardens, and urban forests, enhancing its biophilic design.

Milan, Italy: Famous for its ‘Bosco Verticale’ (Vertical Forest), Milan incorporates biophilic designs into its urban planning, promoting vertical gardens and tree-lined streets.

Four Core Themes



Green Expansion in High Density to Fringe Areas

Balancing urban growth with environmental protection requires robust policies that guide green expansion, especially in high density core areas and expanding to urban fringe.

Four Core Themes



Carbon-Neutral Energy Efficient Neighbourhoods

Creating neighbourhood that generates as much energy as they consume, or even more, is a cornerstone of sustainable urban planning.

Four Core Themes



Hydrosphere Management and Future Urban Utilities

Effective regional water resources management is critical for urban resilience, especially on the face of climate change and increasing water scarcity.

Four Core Themes



Efficient Transit Planning in Reducing the Use of Fossil Fuels

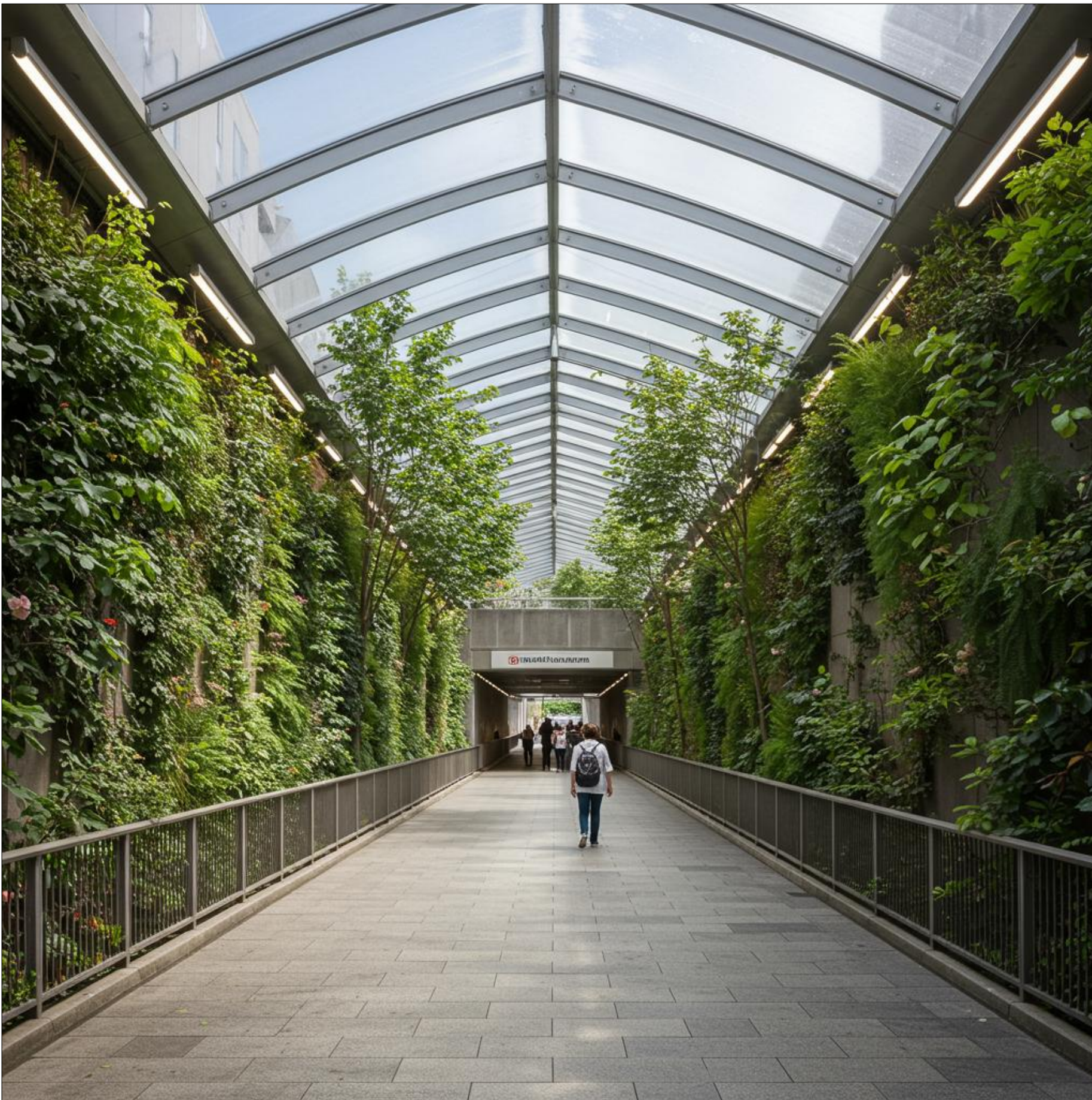
Highly rationalized urban mobility in dependency to orderly methods through innovative neighbourhood layout designs and optimum hierarchy of network access from hubs till last minute.

Transit Planning



A vibrant urban pedestrian and cycling network, featuring abundant natural elements like lush planters, cascading water features, and shaded pathways, prioritizing human-centric design and ecological-wellbeing over vehicular traffic.

Transit Planning



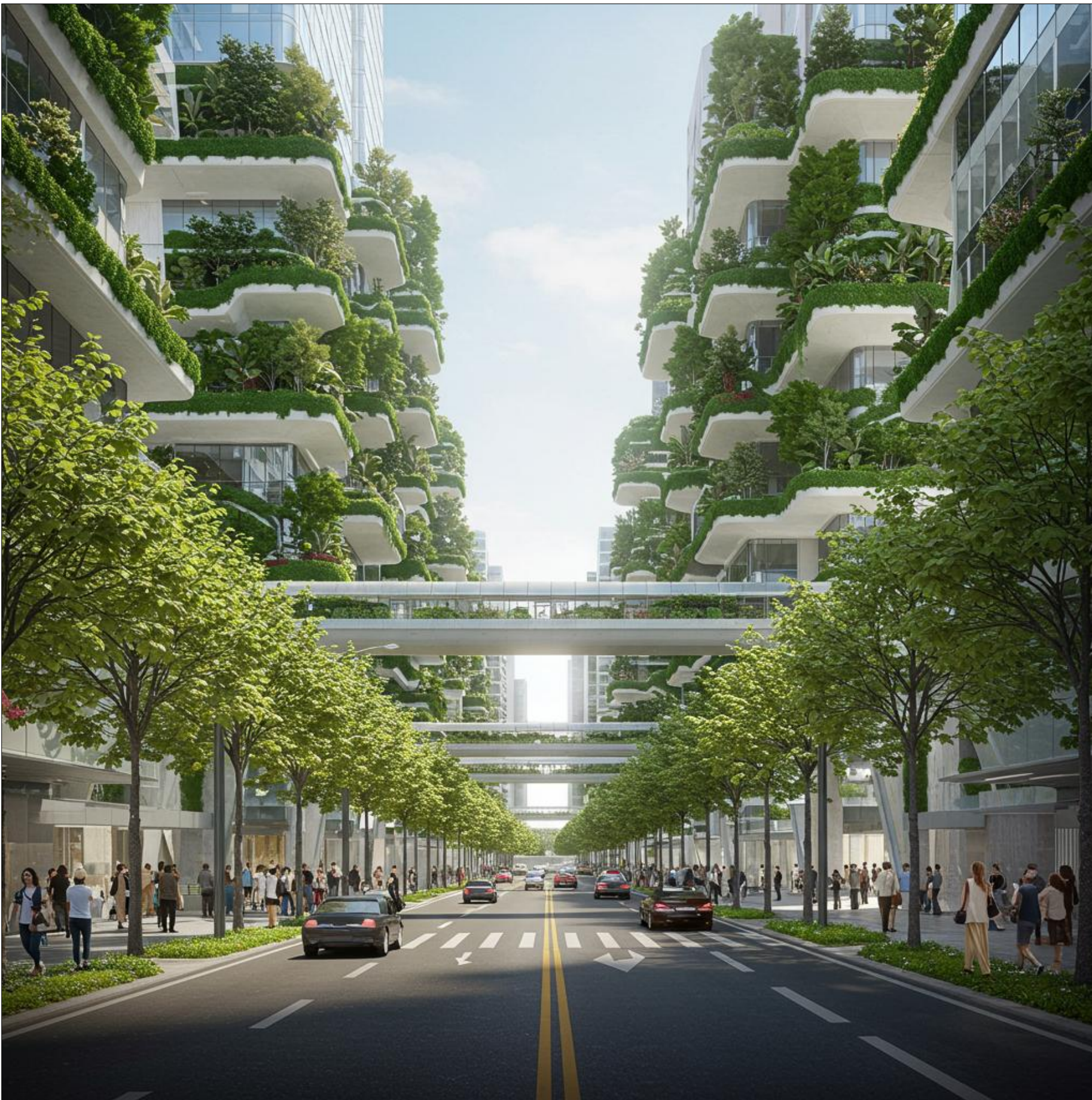
A pedestrian underpass or tunnel transformed into an inviting, biophilic space. It features large natural light from strategically placed skylights, living green walls, natural ventilation, and calming soundscapes of nature, creating a pleasant and safe passage beneath urban infrastructure.

Transit Planning



A modern bicycle parking facility or hub integrated with extensive green infrastructure, featuring a living green roof, vertical gardens, and solar panels. The space is designed with natural wood accents and permeable paving, creating an inviting and eco-friendly environment for cyclists.

Transit Planning



A futuristic city street with lush vertical gardens on buildings, mature trees lining the roads, and integrated green spaces within public transport hubs, creating a harmonious blend of nature and urban mobility.

Transit Planning



A multi-story parking garage transformed into a vertical forest, with every level featuring extensive planters, climbing vines, and integrated bird habitats. The structure seamlessly blends into the urban landscape, providing both parking and ecological benefits.

Transit Planning



A serene urban canal system with electric water taxis gliding past lush floating gardens and biodiverse riparian zones. Pedestrian bridges with integrated planters connect the banks., creating a peaceful and green waterway for transport recreation.

Transit Planning



A dedicated Bus Rapid Transport System (BRTS) lanes integrated with a linear park, featuring permeable paving, native plants, and bioswales to manage stormwater. The bus stops are designed with living green roofs and natural materials, providing a pleasant and eco-friendly waiting experience.

Transit Planning



A modern airport terminal with expansive indoor gardens, natural light filtering through biomorphic structures, and sustainable materials. The design incorporates living walls and water features, creating a calming and nature-infused travel experience.

Transit Planning



An intricate network of elevated pedestrian skywalks connecting urban buildings, designed with integrated planters, small trees, and transport sections that offer view of the city's green spaces bellow. The pathways create seamless, nature-filled journey above the city streets.

Transit Planning



A modern underground subway station, designed with large light wells bringing natural light and live plants deep into the space. Green walls, natural wood finishes, and calming water features create an unexpected oasis beneath the city, enhancing the commuter experience.

Transit Planning



A vibrant community pathway network designed for walking, cycling, and small autonomous vehicles, completely integrated with edible gardens, fruit trees, and community gathering spaces. The paths are made of permeable materials, and solar powered lighting blends into natural surroundings.

Transit Planning



A futuristic urban bridge or overpass designed not for just vehicles, but as a linear park, with lush trees, native shrubs, and permeable pathways. The structure incorporates permeable surface and rainwater harvesting, creating a green corridor that blends seamlessly with surrounding environment.

Transit Planning



A charging station for autonomous electric vehicles, seamlessly integrated into a natural landscape. The charging points are covered by solar canopies draped with climbing vines, and the ground is a permeable surface with native grasses and wild flowers, creating a visually appealing infrastructure.

Transit Planning



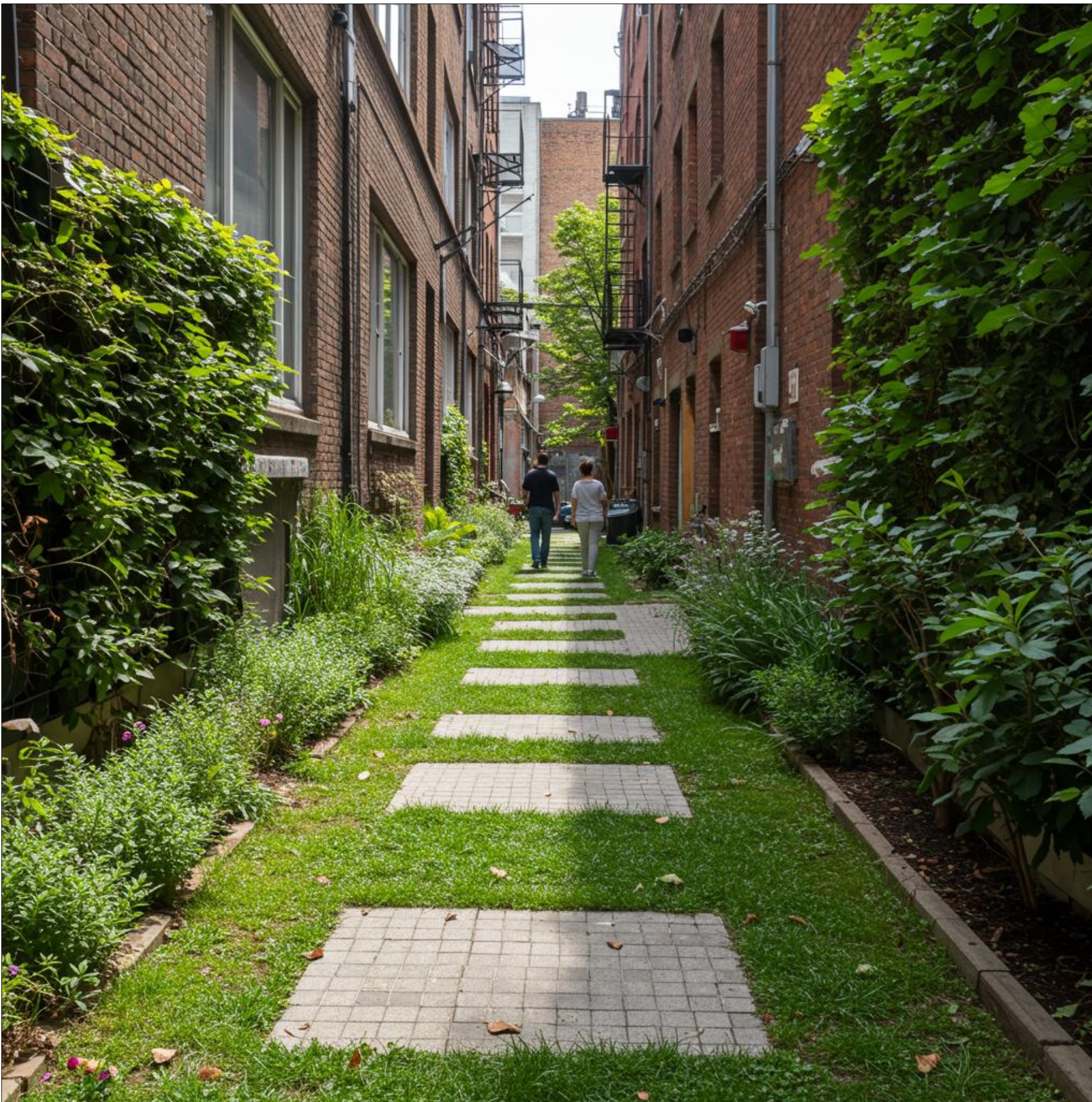
A wide urban boulevard with dedicated lanes for autonomous micro-mobility vehicles, flanked by extensive linear parks, bioswales, and diverse planting. The design emphasizes shared spaces and green infrastructure for sustainable urban commute.

Transit Planning



A futuristic cable car or gondola system seamlessly integrated into an urban landscape, with stations designed with green roofs and vertical gardens, and the cable lines passing over lush parks and green corridors, offering a scenic and sustainable mode of transport.

Transit Planning



A transformed urban alley or service lane, featuring permeable paving, vertical gardens on adjacent building walls, and strategically placed planters with native vegetation. Utilitarian space functions as a green, accessible pathway for pedestrians and light service vehicles, enhancing urban biodiversity.

Transit Planning



A futuristic high-speed rail station designed with expansive glass facades that bring in natural light, interior vertical gardens, and rooftop park accessible to passengers. The platforms are lined with lush greenery, creating a calming and visually appealing gateway for travellers.

Transit Planning



An innovative urban space combining a vertical farm or community garden with a compact transportation hub. Electric delivery vehicles and bicycles move through pathways lined with edible plants, and the hub features green walls and rooftop farm, demonstrating integrated food production and logistics.

Transit Planning



A large vertical farm building in an urban setting, with integrated transport systems like elevated light rail lines or drone delivery ports seamlessly connected to the urban farm for efficient, green logistics of fresh produce. The building itself is covered in lush greenery, blending agriculture with urban mobility.

Transit Planning



A large urban park that seamlessly integrates a multi-modal mobility hub, featuring natural materials, extensively native planting, and quite electric micro-mobility charging stations. The design ensures the hub blends into park's natural aesthetics, providing a green and convenient transition point.

Transit Planning



A futuristic urban intersection where traditional traffic lights are replaced by dynamic, nature-inspired light patterns projected into lush street trees and living walls. Pedestrian crossings are marked by subtle, bioluminescent pathways, creating an intuitive and harmonious traffic flow through natural elements.

Transit Planning



A network of small, electric autonomous pods moving along dedicated pathways integrated within lush urban green campus. The pathways are permeable, lined with native plants and trees, and feature natural shading structures, creating an eco-friendly personal transport system.



Hanging Gardens of Babylon are legendary and one among Seven Wonders of the ancient world. King Nebuchadnezzar II (604-562 BCE) built this nostalgic biophilia for Queen Amytis.

Entire booklet of digital art is prepared and composed by K Ravi Kumar Reddy from the induced knowledge of biophilia and output described to themes. Published by K Muralidhar Reddy, Hon. Secretary, Institute of Town Planners, India – Telangana State Regional Chapter, Hyderabad. No digital rights violated during the preparation of this booklet, since all these are priori of LLM generated images. Special mention of both Google and Grok handles for AI in support of extensive knowledge acquisition and sourcing on the selected themes while conducting this visual research.



Headquarters building of Institute of Town Planners, India at New Delhi, and imaginary transformation to vertical gardens implied through visible facade treatment to features.

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